

PCT REQUEST

Original (for SUBMISSION)

III-2	Applicant and/or Inventor	
III-2-1	This person is:	inventor only
III-2-4	Name (LAST, First)	CHRISTOPHER, Norman
III-2-5	Address:	290 Quail Hollow Road Fountain Inn, South Carolina 29644 United States of America
III-3	Applicant and/or Inventor	
III-3-1	This person is:	inventor only
III-3-4	Name (LAST, First)	MANUEL, Stephen
III-3-5	Address:	255 Red Maple Road Flat Rock, North Carolina 28731 United States of America
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name:	Dority & Manning, P.A.
IV-1-2	Address:	P.O. Box 1449 Greenville, South Carolina 29602 United States of America
IV-1-3	Telephone No.	864-271-1592
IV-1-4	Facsimile No.	864-233-7342
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the International filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority Claim	NONE
VII-1	International Searching Authority Chosen	United States Patent and Trademark Office (USPTO) (ISA/US)

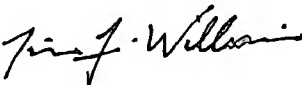
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VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	4	✓
IX-2	Description	12	-
IX-3	Claims	6	-
IX-4	Abstract	1	✓
IX-5	Drawings	3	-
IX-7	TOTAL	26	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-11	Copy of general power of attorney	reference no. MIC-87-PCT (P50-0115)	-
IX-17	PCT-SAFE physical media	-	✓
IX-18	other:	Check	
IX-18	other:	Return Receipt Postcard	
IX-18	other:	Transmittal Letter to the United States Receiving Office	
IX-19	Figure of the drawings which should accompany the abstract	1	
IX-20	Language of filing of the international application	English	

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X-1	Signature of applicant, agent or common representative	
X-1-1	Name:	Dority & Manning, P.A.
X-1-2	Name of signatory	Tim F. Williams
X-1-3	Capacity	Agent

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported International application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/US
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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PCT (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	
0-1	International Application No.	
0-2	Date stamp of the receiving Office	
0-4	Form PCT/RO/101 (Annex)	
0-4-1	PCT Fee Calculation Sheet	PCT-SAFE [EASY mode]
	Prepared Using	Version 3.50 (Build 0002.162)
0-9	Applicant's or agent's file reference	MIC-87-PCT
2	Applicant	MICHELIN NORTH AMERICA, INC.
12	Calculation of prescribed fees	
12-1	Transmittal fee T	⇒ 300
12-2-1	Search fee S	⇒ 1000
12-2-2	International search to be carried out by	US
12-3	International filing fee (first 30 sheets) I1	1134
12-4	Remaining sheets	0
12-5	Additional amount (X)	0
12-6	Total additional amount I2	0
12-7	I1 + I2 =	1134
12-12	EASY Filing reduction R	-81
12-13	Total International filing fee (I-R) I	⇒ 1053
12-14	Fee for priority document	
	Number of priority documents requested	0
12-15	Fee per document (X)	20
12-16	Total priority document fee: P	⇒
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇒ 2353
12-19	Mode of payment	cheque
12-20	Deposit account instructions	
	The receiving Office	United States Patent and Trademark Office (USPTO) (RO/US)
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	✓
12-21	Deposit account No.	04-1403
12-22	Date	13 August 2004 (13.08.2004)
12-23	Name and signature	Dority & Manning, P.A.

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0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.162)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	MIC-87-PCT
I	Title of Invention	AUTOMATIC PRESSURE AND TEMPERATURE CONTROL APPARATUS AND METHOD FOR CURING TIRE ASSEMBLIES
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name:	MICHELIN NORTH AMERICA, INC.
II-5	Address:	515 Michelin Road Greenville, South Carolina 29602 United States of America
II-6	State of nationality	FR
II-7	State of residence	US
II-8	Telephone No.	864-422-4648
II-9	Facsimile No.	864-422-3517
III-1	Applicant and/or inventor	
III-1-1	This person is:	inventor only
III-1-4	Name (LAST, First)	YOUNG, Robert
III-1-5	Address:	105 Lombardy Court Simpsonville, South Carolina 29681 United States of America

An automatic pressure and temperature control apparatus and method for use in curing tire assemblies including retread tire assemblies is provided. Using water as a heating medium, a new process control method and apparatus is described that allows a more precise control of process variables during steady state conditions such that heat transfer is improved and the undesirable formation of steam is eliminated. Existing processes and equipment for curing tire assemblies can be modified, using the teaching disclosed herein, to implement and achieve the benefits of the present invention.